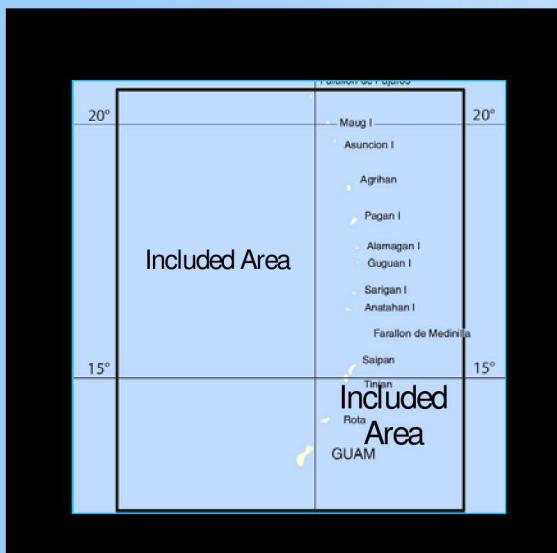


BookletChartTM

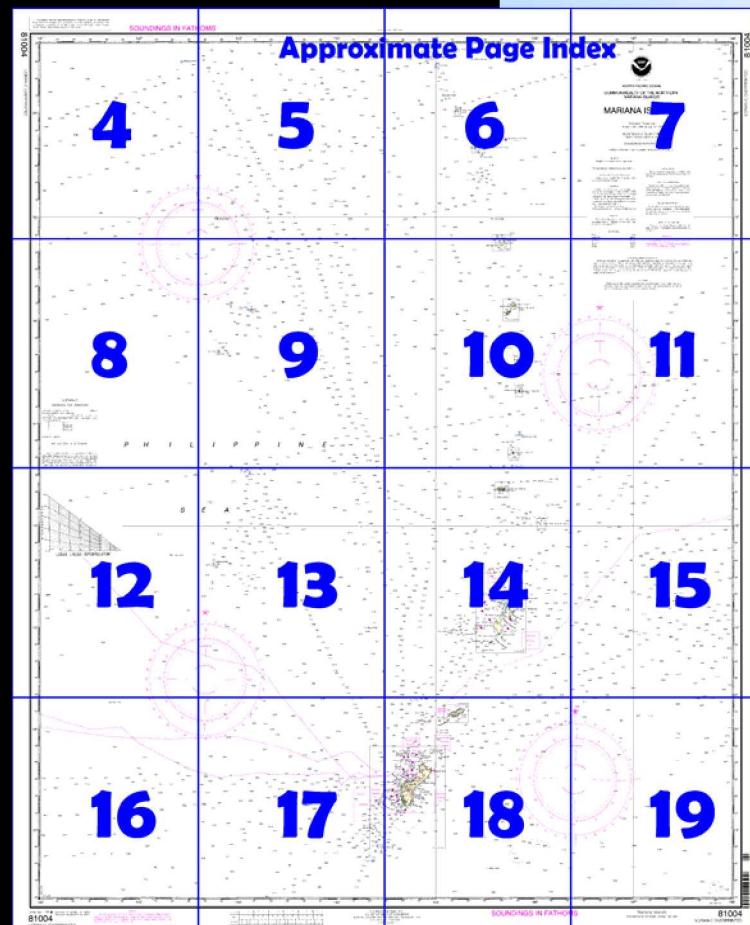
Commonwealth of the Northern Mariana Islands

(NOAA Chart 81004)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- Complete, reduced scale nautical chart
- Print at home for free
- Convenient size
- Up to date with all Notices to Mariners
- United States Coast Pilot excerpts
- Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

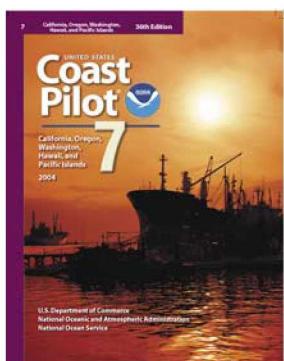
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 15 excerpts]
Mariana Islands
(11) Mariana Islands are comprised of the **Northern Marianas** and **Guam**. The Northern Marianas, a self-governing U. S. commonwealth consists of a chain of 16 volcanic islands, which extend in a N and S direction for a distance of about 450 miles. The islands in the group from N to S are Farallon de Pajaros, Maug, Asuncion, Agrihan, Pagan, Alamagan, Guguan, Sarigan, Anatahan, Farallon de Medinilla, Saipan, Tinian, Aguijan, and Rota. Except for Maug, which is a cluster of three tiny islands, all are single islands which rise precipitously as mountain peaks of rocky, volcanic material and are conspicuous from the offing. They are a good radar target from a distance of 14 miles, but are reported to give a poor return from a distance of 28

miles. Their total area is approximately 184 square miles. The three principal islands, Saipan (47 square miles), Tinian (39 square miles) and Rota (32 square miles) form two-thirds of the land area of the group.

(12) **Guam**, a U.S. territory since 1898, is not included in the Northern Marianas. Guam is the largest and most southern island of the Marianas Archipelago. The island is about 30 miles long and varies from 4 to 8 miles in width.

Weather, Pacific Islands

(13) The islands of the Marianas Archipelago have similar weather conditions. Under ordinary circumstances, the wind and seas in the vicinity of Guam are easterly due to the Northeast Trades. Westerly winds are at times experienced during the summer months as Guam is barely within the limits of the Southwest Monsoon. These winds are light as a rule. In the vicinity of Guam, northeasterly and east-northeasterly winds prevail for 6 months of the year. These winds blow from the northeast to east 65% of the time between December and May, and are strongest during these months. Between June and November, the surface winds are quite variable; calms are rare. In the southerly islands, the winds show a slight southerly trend as early as May.

(14) In the vicinity of the islands of Saipan and Tinian, the steadiest winds occur when the winter monsoon and the NE Trades reinforce each other. Between November and April, NE and easterly winds prevail 70% of the time at rates of 10 to 12 knots. During the summer monsoon (May to October) easterly winds predominate, but southerly to westerly winds also occur. Wind velocities are about 10 to 11 knots from May to July, and 8 knots from August to October. Land mass effect modifies the maritime diurnal variations so that the surface winds are strongest at 0300 and weakest at 1400.

(15) In the vicinity of Pagan Island, the winds are steadiest during the Northeast Monsoon (November through March). They blow mostly from the NE at an average rate of 15 knots. From April through June, the monsoon weakens and the prevailing winds become more easterly. During the wet season (June through November), easterly winds continue to predominate, but with considerable percentages from southerly to westerly directions. The winds are mostly light; the only strong winds occurring with typhoons.

(16) Precipitation increases decidedly during the summer months, especially in the southern islands. The wet season (July through October) has a mean monthly average of 10 inches (254 mm) or more. The major rainfall consists of heavy showers. As a rule, the rainfall diminishes as the latitude increases.

(17) The rainy season at Guam is from the first of July until the early part of November, with a monthly average of 11 to 15 inches (279 to 381 mm). January through June is the driest period, with an average monthly fall of 3.9 to 6.5 inches (99 to 165 mm). March is the driest month with an average precipitation amount of 3.9 inches (99 mm). The mean average rainfall is about 101 inches annually (2565 mm) but has ranged from 165 inches (4191 mm) in 1976 to 67 inches (1702 mm) in 1973. An average of 30 thunderstorms each year effect the island of Guam. The most active month is August.

(43) **Aguijan Island** ($14^{\circ}51'N$, $145^{\circ}33'E$) is about 022° , 42 miles from Rota Island, and it has steep, cliffy and inaccessible shores. Naftan Rock is about $\frac{1}{2}$ mile southwest of the island's southwest end.

Off-lying banks and dangers

(44) **Esmerala Bank**, about 17 miles northwest of Aguijan Island, has a least depth of about 33 fathoms (60 meters), and can be recognized by the discoloration of the water, which has the appearance of sulphur being emitted. A 30 fathom (54 meters) bank, marked by boiling sulphur, is about 20 miles northwest of Aguijan Island. Other banks with greater depths are charted in this vicinity.

(45) A bank, with a depth of 19 fathoms (34 meters) over it, is about 5 miles southwest of Aguijan Island.

(46) **Tatsumi Reef**, centered about 2 miles southeast of the southern end of Tinian Island, is on the northeast side of Tinian Channel. A patch with a depth of 13 fathoms (24 meters) over it is 14 miles west of the north end of Tinian Island.

Table of Selected Chart Notes

Corrected through NM Aug 02/08
Corrected through LNM Jul 29/08

Additional information can be obtained at nauticalcharts.noaa.gov.

HEIGHTS

Heights in feet above Mean High Water.

Mercator Projection
Scale 1:931,650 at Lat 17° 00'

(Reference Horizontal Datum Note)

SOUNDINGS IN FATHOMS

For Symbols and Abbreviations see Chart No. 1

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

AUTHORITIES

Hydrography from Japanese, U.S. Navy, and National Geospatial-Intelligence Agency surveys.

NOTE B

Full bottom coverage was not achieved within the dashed outline areas. Shoaler depths may exist.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

HORIZONTAL DATUM

The horizontal reference datum for this chart is unknown, except within the areas of the gray chart outlines indicating larger scale chart coverage. The horizontal reference datum for all areas within the gray chart outlines can be considered equivalent to World Geodetic System 1984 (WGS84), which for charting purposes is also considered equivalent to North American Datum of 1983 (NAD83). The charted features within the limits of the gray chart outlines were shifted by means of georeferenced satellite imagery and geo-referenced aerial photography, and have not been confirmed by land-based geodetic methods.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
 (Accurate location) (Approximate location)

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or help@OceanGrafix.com.

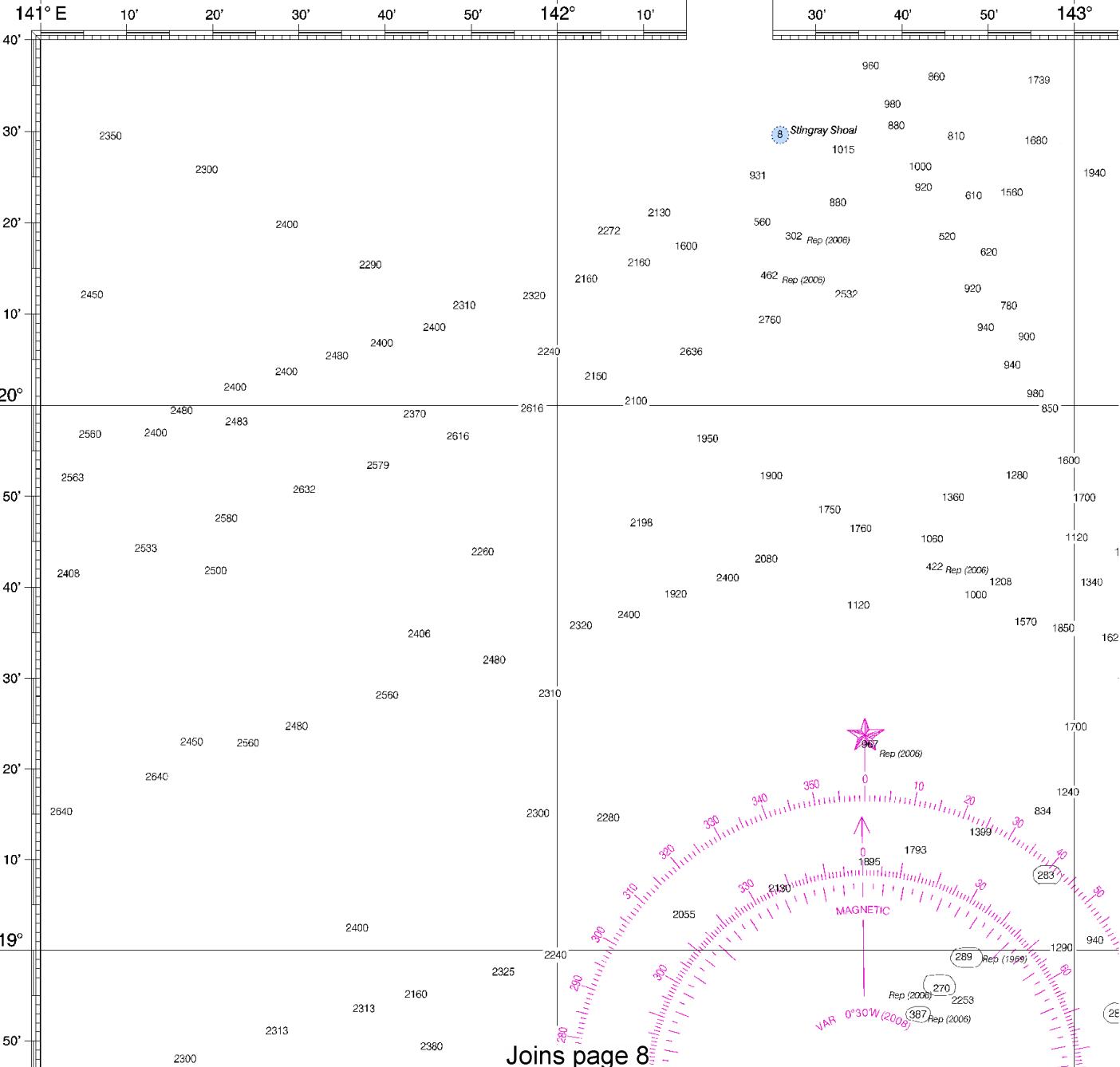
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

CAUTION

81004

LORAN-C OVERPRINTED

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.



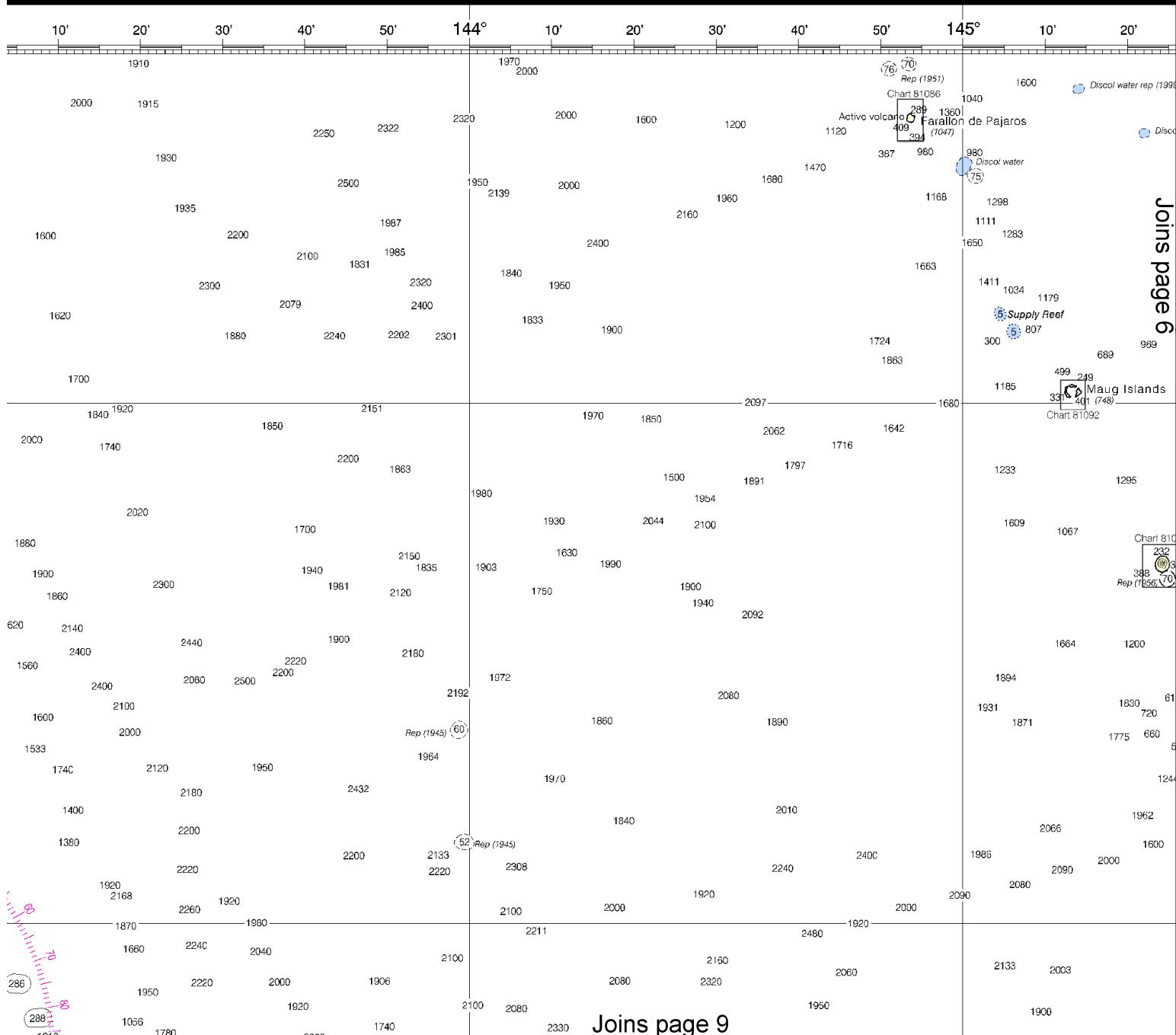
Joins page 8

4



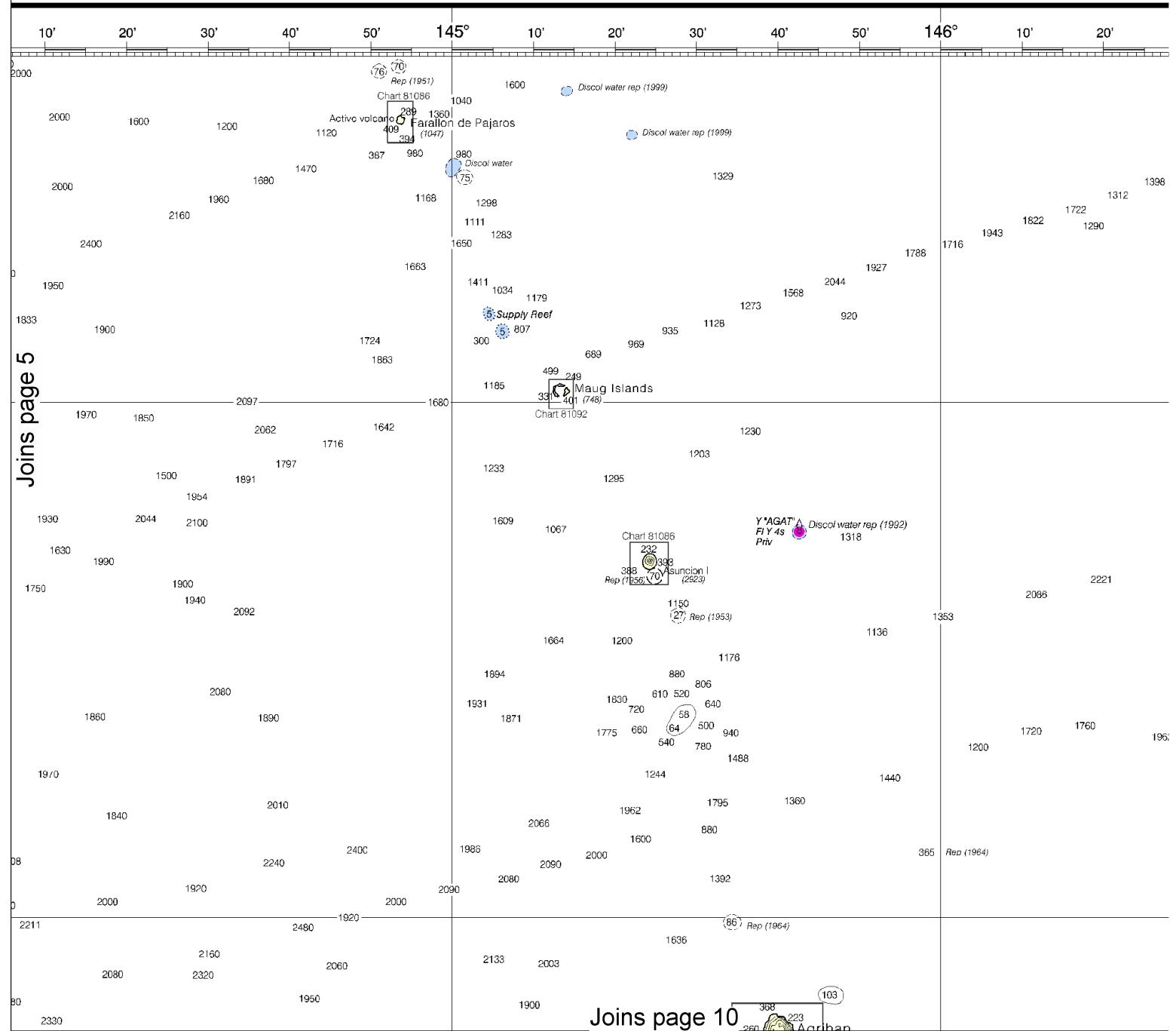
N FATHOMS

1st Ed., Oct. 1982 KAPP 2904



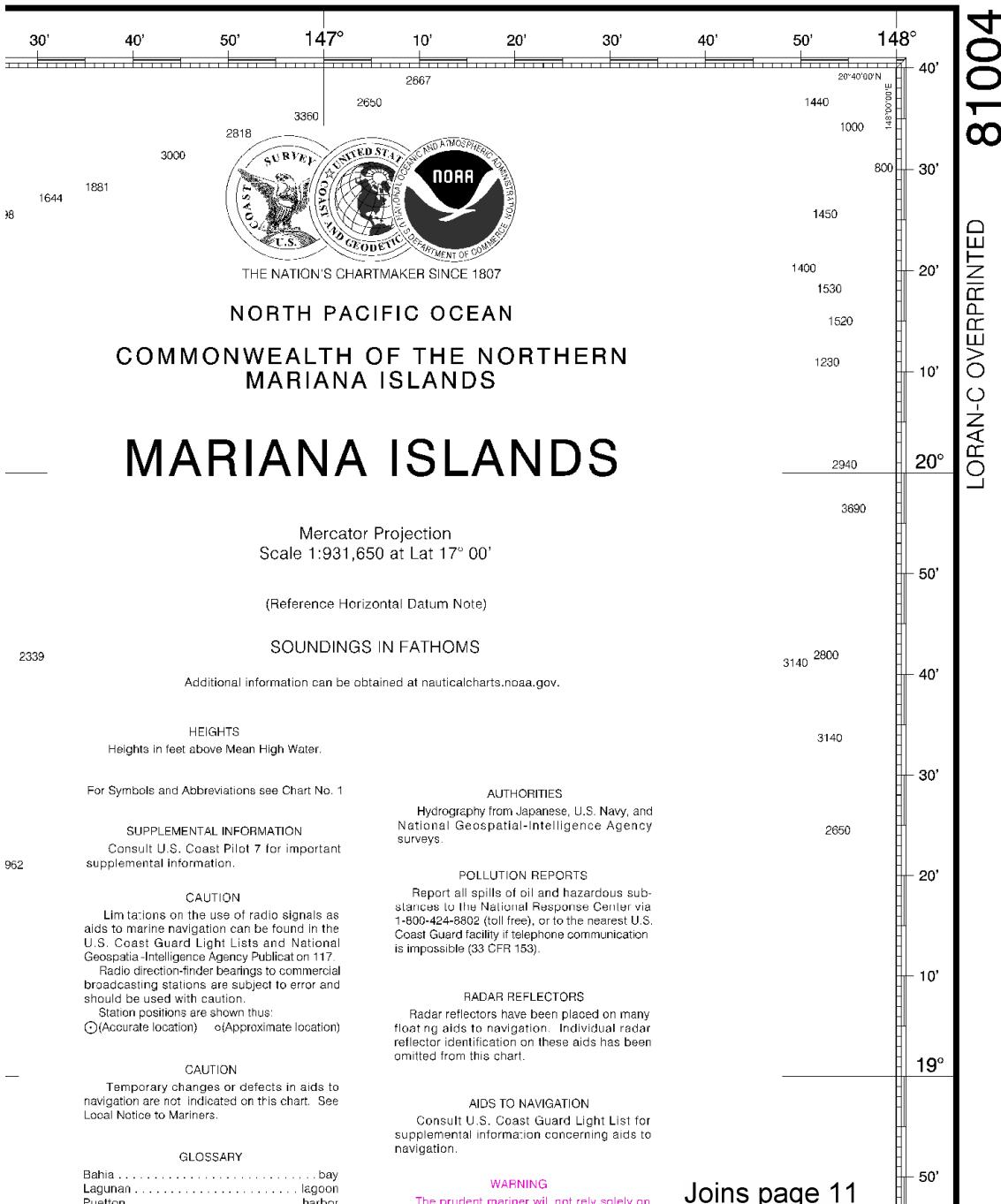
This BookletChart was reduced to 75% of the original chart scale.
The new scale is 1:1242200. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.

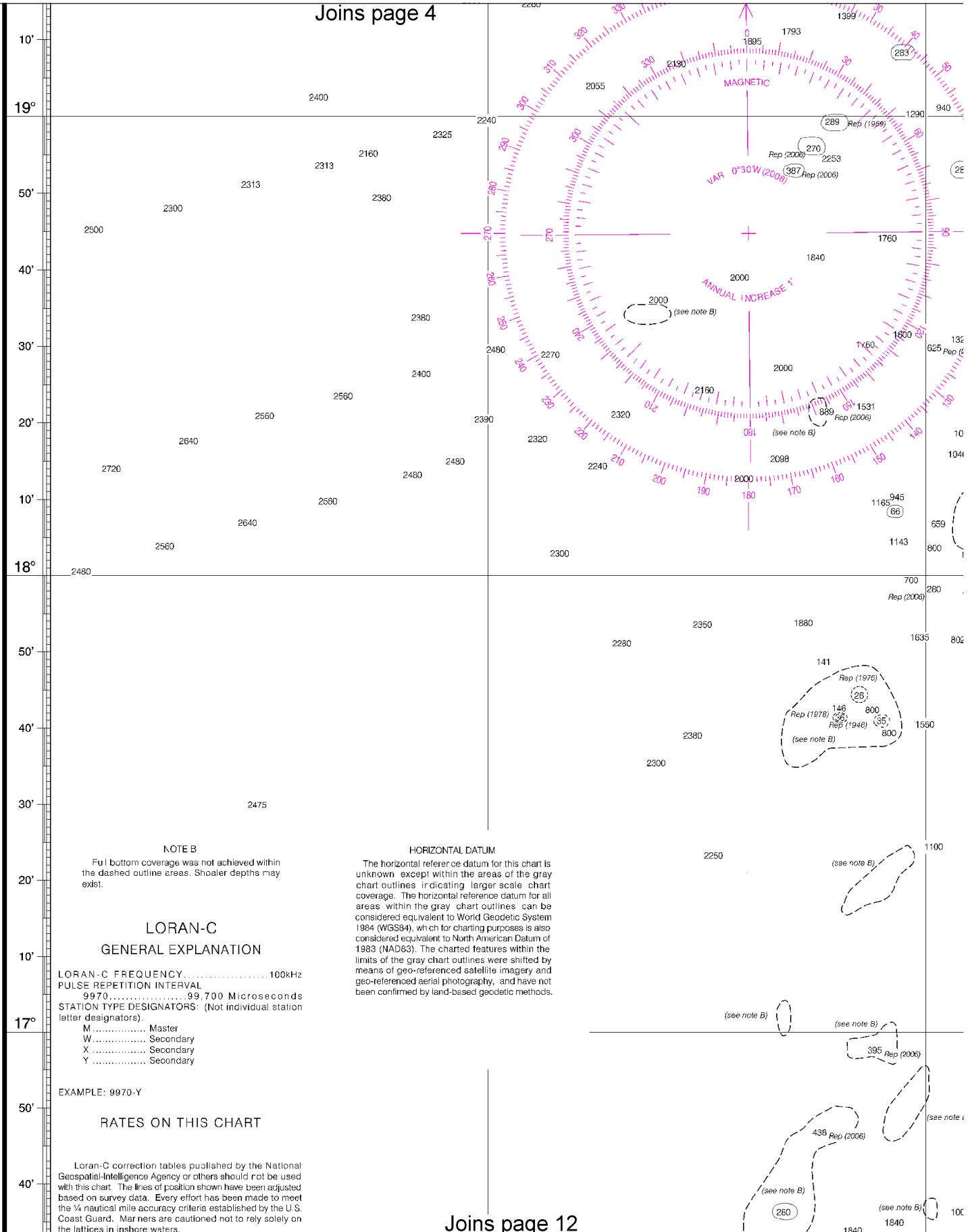
1st Ed., Oct. 1982 KAPP 2904



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Joins page 5

Joins page 5											
1400	2200	2200	2200	2133	2200	2308	1840	2010	2010	2066	1962
1380	1920	2168	2220	1920	(52) Rep (1945)	2308	2240	2400	2400	1986	1600
1870	1660	2240	2040	2100	2100	2000	1920	2000	2000	2080	2090
286	1950	2220	2000	1906	2100	2080	2080	2320	2060	2133	2003
288	1056	1780	1920	2000	1740	2330	1950	1950	1950	1900	1900
1219	1440	2380	2020	2080	2150	2170	2020	2020	2020	1990	1990
88	2000	2160	2420	1980	2433	2100	2100	2100	2100	1950	1950
100	2080	1920	2080	2400	2040	2202	2202	2202	2078	2030	2000
1980	1150	1650	2440	2080	2140	2451	2150	2580	2010	2000	1912
1980	2040	1840	1860	1860	2140	2140	2200	2041	1950	1950	1950
1040	2140	1880	1820	1820	2304	2304	2030	2030	2030	2060	2060
040	2120	2160	1820	2265	2240	2225	2230	1800	1800	2000	1940
310	1888	1890	1790	2180	2120	2022	2022	2022	2022	1998	1998
PA	1540	1310	2200	2455	1900	2154	2154	1450	1450	1700	1940
800	1120	1120	2339	2140	2127	2127	2127	2000	2000	1900	1900
1128	915	1385	2520	2420	2114	2260	1990	2290	2290	2010	1890
802	710	2366	2560	2160	2114	2160	2220	1943	1943	1850	1840
3000	3000	2366	2360	2080	2140	2609	2451	1669	1669	2090	1890
1330	2500	1718	1840	2080	1820	2180	1901	1903	1903	2039	1880
1290	2700	2070	1737	1820	1737	2020	2020	2310	2310	2040	1870
1650	2120	1860	1640	2120	1340	2240	2240	2036	2036	1870	1740
1180	1870	1980	2080	2080	2080	2300	2100	2100	2100	2050	2050
(see note B)	950	1300	1300	1300	1300	2040	2140	1950	1950	1820	1820
530	890	2080	2080	2080	2080	2002	2025	1960	1960	2000	2000
890	1300	1300	1300	1300	1300	2220	2220	2080	2080	2000	2000
(see note B)	1700	2010	2010	2010	2010	2458	2240	1980	1980	2240	2240
2900	2030	2120	2120	2120	2120	2175	2100	2320	2320	2210	2070
te B)	2465	2465	2465	2465	2465	1960	1940	1960	1960	1900	1900
1280	1760	1650	2200	2200	1350	1960	1969	2000	2000	2031	1740
1000	940	1200	1200	1200	1200	2050	2140	2000	2000	1990	1825
500	600	1100	1100	1100	1100	2000	2000	1950	1950	1950	1950

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Joins page 6

Joins page 6									
1840	2010	2066	1962	1795	1360				
08		1986	1600	880					
0	2000	2080	2000	1392					
2211				(86) Rep (1964)					
2080	2160	2060	2133	2003	1636				
2330		1950		1900					
2170		2020		1950					
2200	2580	2010	2078	2030	1609	1622	1600		
2030		2041		1950		1225	1477	1720	1350
2225	2230	1800	2060	2000	1912		1505	1000	1300
2127		1450	2000	1940		1399	1489	1100	1400
2290		1880		1900		1227		1570	1720
2220	1943		2010	1890		1292			
1901	1903	1669	1850	1840	1796	1527			
2310	1920	1440	2090			1292			
2240	1820		1890				1400	1400	1565
2036	2100		1880				1400	1400	1565
2100	1680		1777						
2140	2100		1489						
2025	1950	1820	1640						
220	1960		1364						
1700	2080	1960	1740						
2329			1870						
2000	2060		1800						
2240	2260	1980	1800						
2392	2000	2240	2240						
1840	2000	2160	2320						
1940	1960	2000	2210						
1969	2000		1920						
2140	2000	2000	1830						
1720	2045		1900						
2000	2060	1950	1825						
2240	2260	2000	1740						
2392	2000	2240	1900						
1840	2000		2031						
1940	1960	2000	1825						
1969	2000		1950						
2140	2000	2000	1990						
1720	2045		1009						
2000	2060	1950	1941 Rep (1961)						
2240	2260	2000							
2392	2000	2240							
1840	2000								
1940	1960	2000							
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2140	2000	2000							
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2000	2060	1950	1941 Rep (1961)						
2240	2260	2000							
2392	2000	2240							
1840	2000								
1940	1960	2000							
1969	2000								
2140	2000	2000							
1720	2045								
2000	2060	1950	1941 Rep (1961)						
2240	2260	2000							
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1940	1960	2000							
1969	2000								
2140	2000	2000							
1720	2045								
2000	2060	1950	1941 Rep (1961)						
2240	2260	2000							
2392	2000	2240							
1840	2000								
1940	1960	2000							
1969	2000								
2140	2000	2000							
1720	2045								

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1009 (94) Rep (1961)

10



aid to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication on 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

(Accurate location) (Approximate location)

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

GLOSSARY

Bahia	bay
Lagunan	lagoon
Puetton	harbor
Puntan	point
Unai	beach
Isleta	island

Joins page 7

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

WARNING

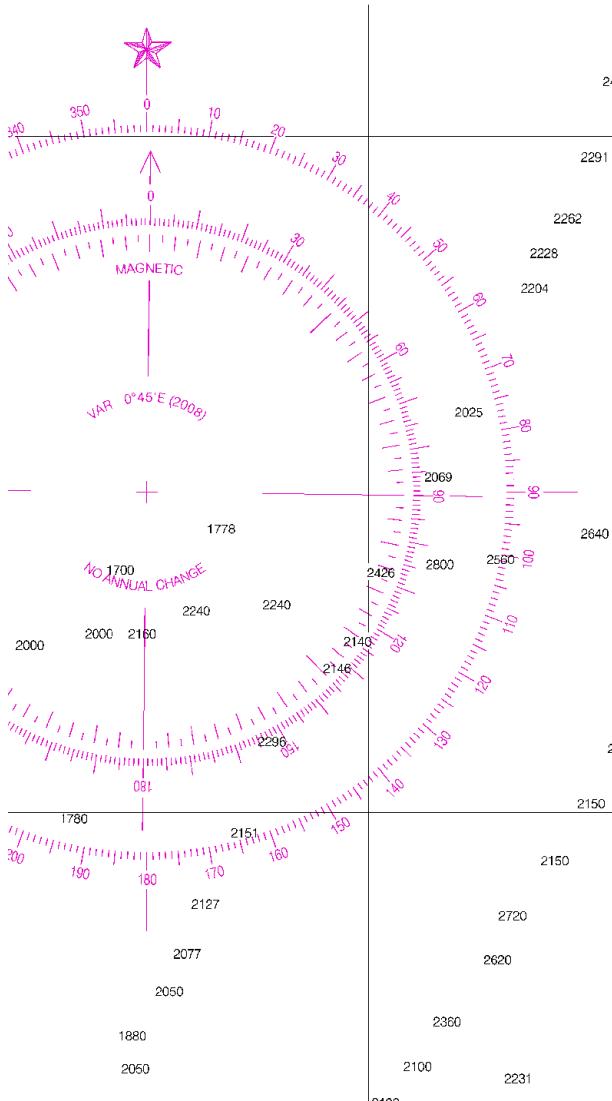
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

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CAUTION

Differences in latitude and longitude may exist between this and other charts of the area; therefore, the transfer of positions from one chart to another should be done by bearings and distances from common features.



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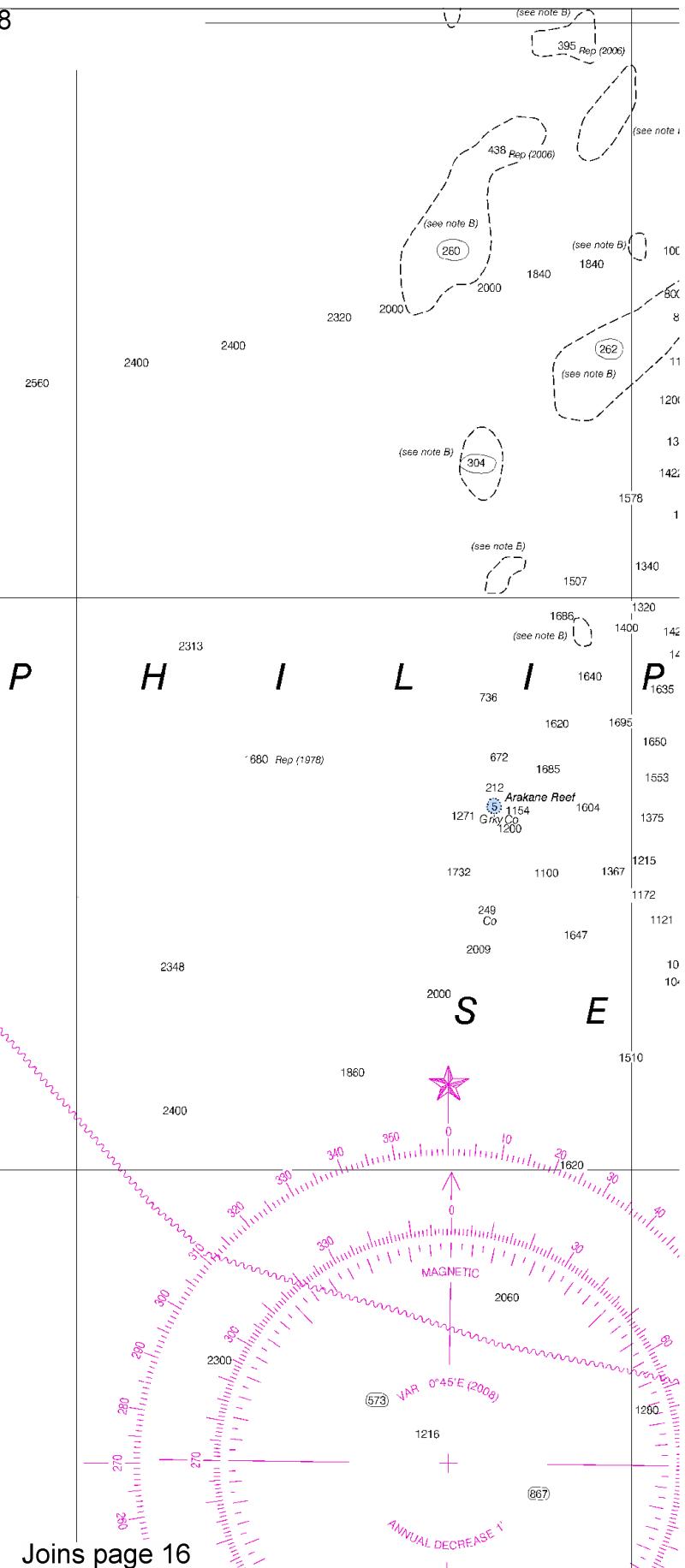
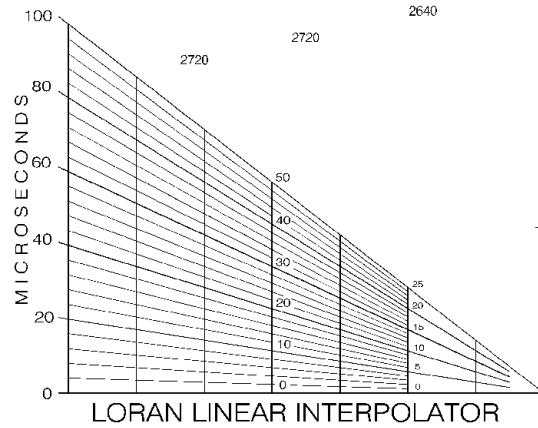
11

M Master
W Secondary
X Secondary
Y Secondary

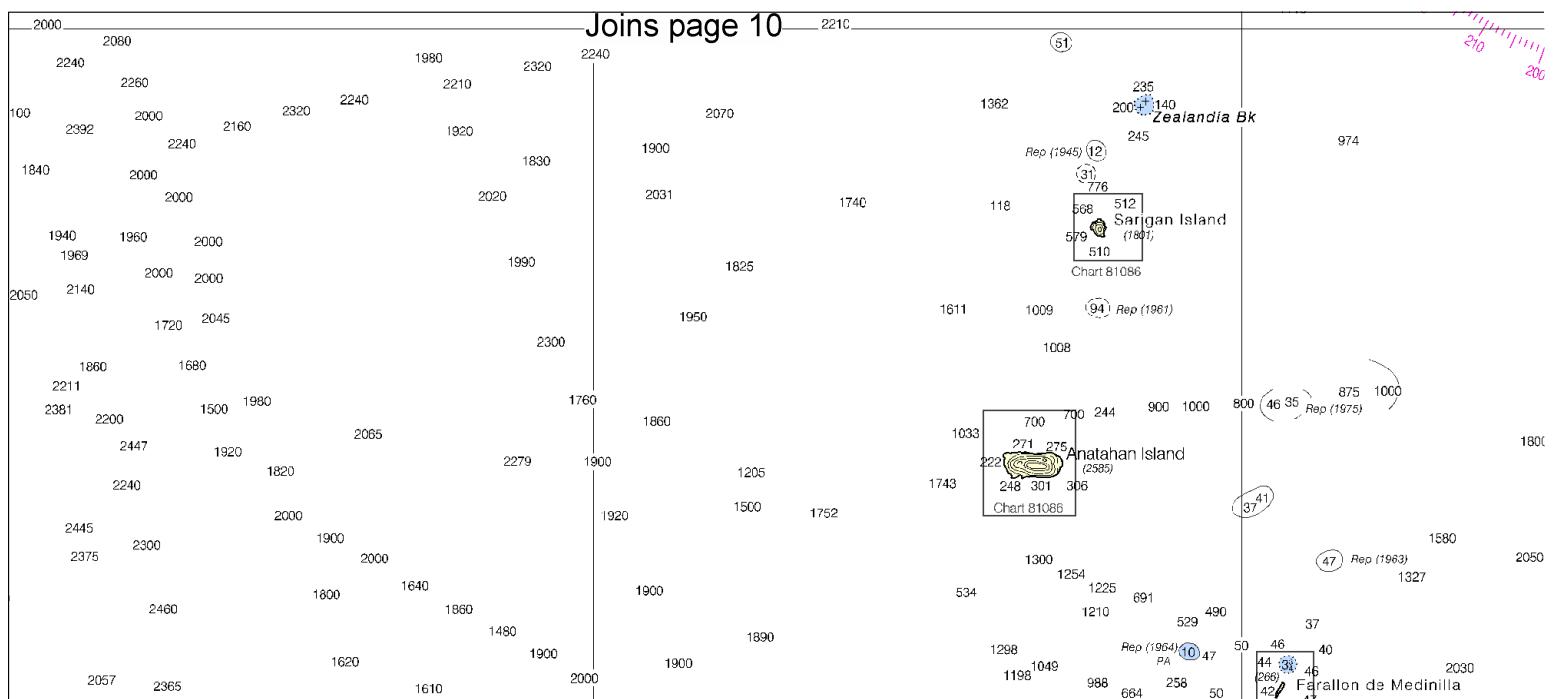
EXAMPLE: 9970-Y

RATES ON THIS CHART

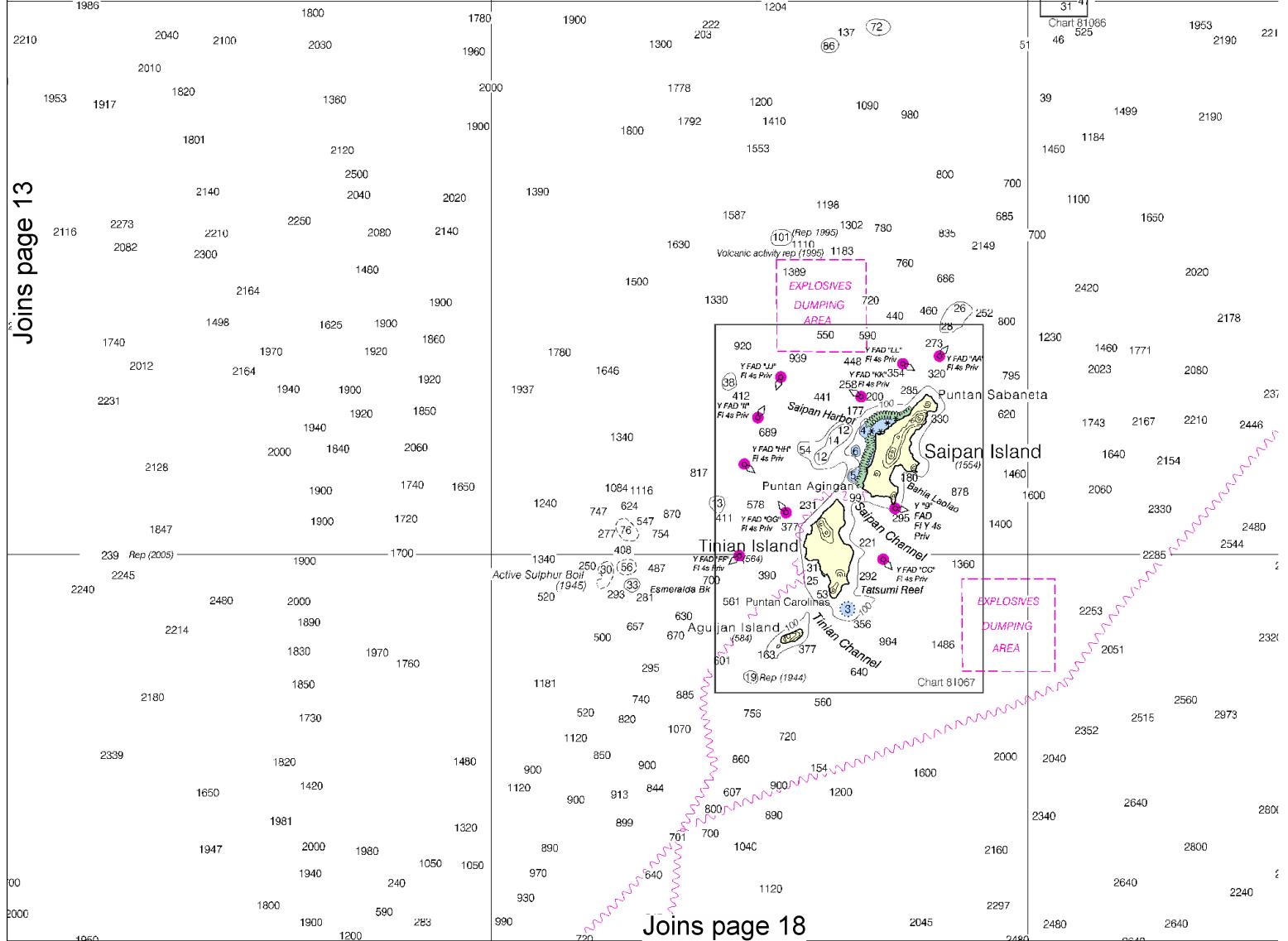
Loran-C correction tables published by the National Geospatial-Intelligence Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the 1/4 nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on the latitudes in inshore waters.



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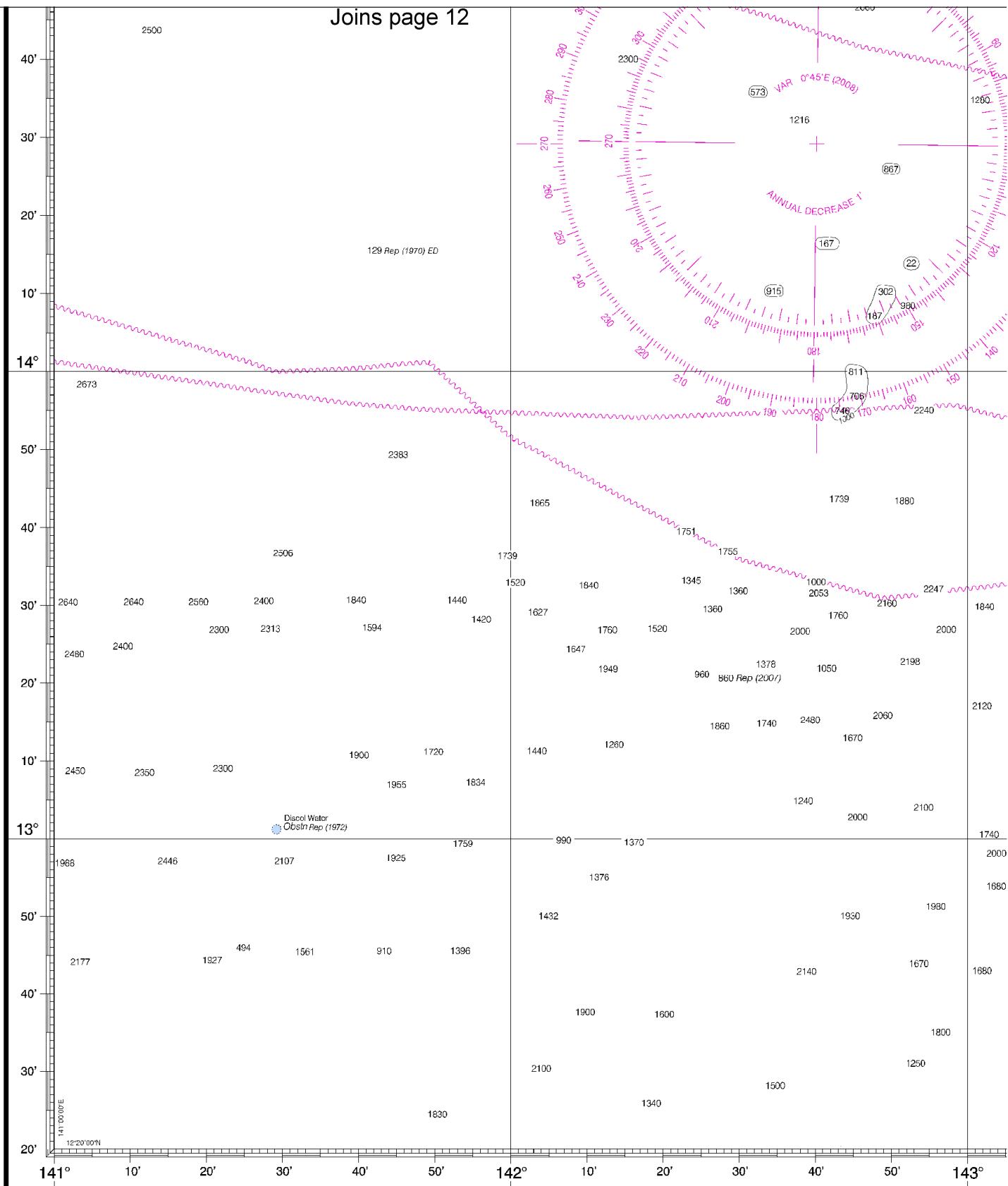
Joins page 18

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1780	2151	2150	3410	4400	4240	17'
200	180	2720	3320			50'
180	170	2620	3840			40'
180	2127					30'
2050		2360	3040			20'
1880		2100	2231	3593		10'
2050	1450	2100	2320			16°
2188	1450	2500	1840			
2050	2050	2300	2640			
300		2141	1880			
50		3155				
2200	2200	3169	2240			
2650		2250	2560			
2000	2000	2670				
2690		2800		2855	2499	
2720	2720	2960	2380			
2880		2883	2864	2762	2846	50'
2450	2880		2253	2660	3378	40'
2841	2841	2940	2124	2951		30'
2220	2220	2976	2050	3404	3996	20'
2536	2536	3167	2253	3632	3302	10'
2720	2720	3120	2140	3078	3917	15°
2260	2260	2860	2790	4204	3600	
2450	2450	2960	2700	3120	3158	
2400	2400	3320	2500	3450	3337	
2560	2560	3100	3040	4240	3361	
2160		2700	3200	4330	3607	
2440	2440	2160	2960	3120	3290	
2570	2570	3200	3040	4240	2820	
2740		3200	3840	4160	3150	
2860	2860	3600	4560	4580	2640	
3020		3600	3840	4160	3280	
2340	2340	3120	3340	4160	3910	
2720	2720	3360	3870	4640	3320	
2620		3120	3800	4640	3263	50'
320	2400		4560	4270	2840	2500
2480		2960	4000	4080	1581	40'
2640	2640	2640	5030	4407	2004	30'
300	2960	3280	5120	4407	1945	1846
2480	2560	3165		2230	1330	1996
2320		4480				20'
2455		3149				

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5th Ed., Aug. /08 ■ Corrected through NM Aug. 02/08
Corrected through LNM Jul. 29/08

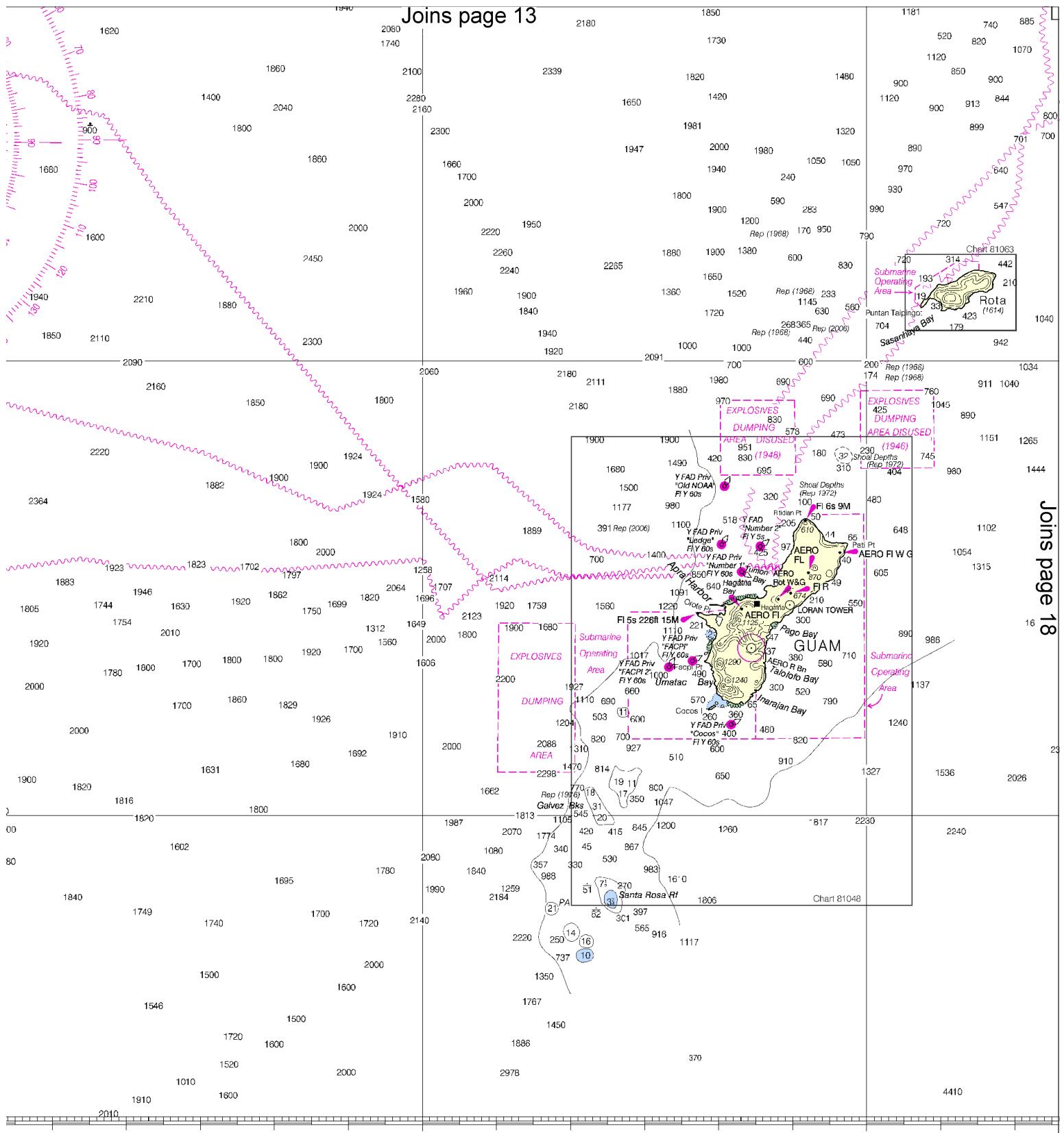
81004
LOBAN-C OVERPRINTED

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

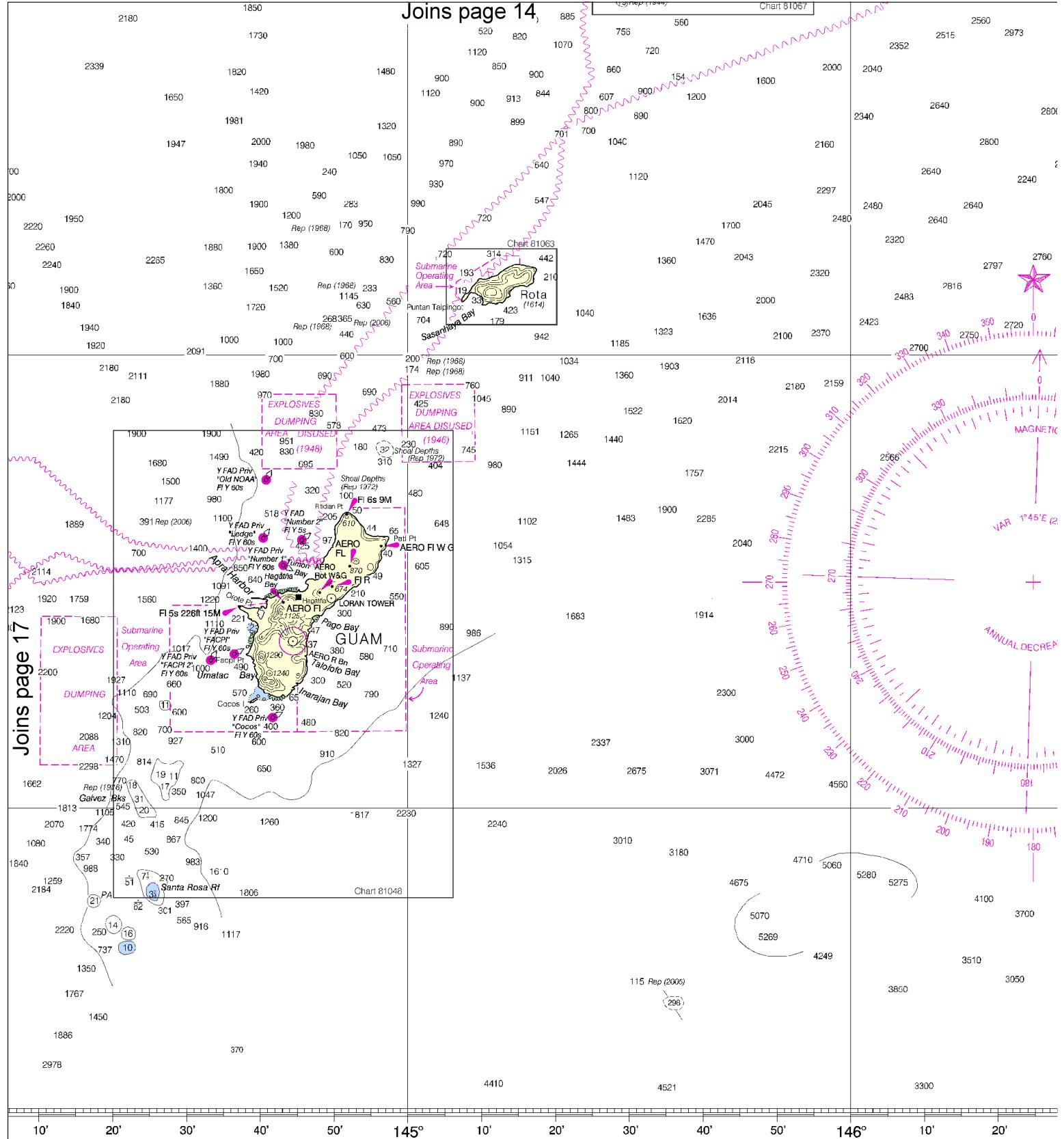
FATHOMS	1
FEET	6
METERS	1.83

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Joins page 14

Chart 810

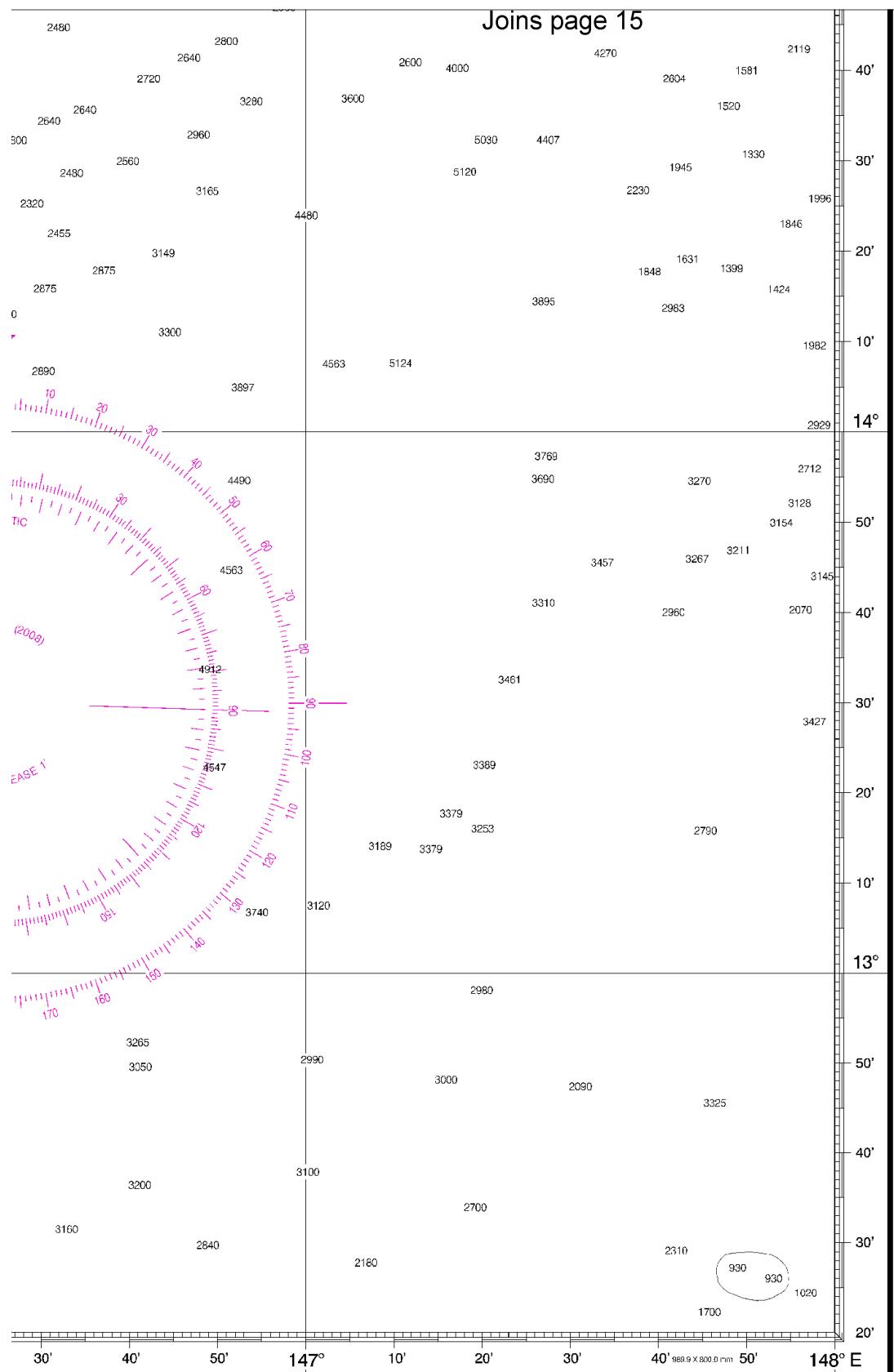


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NATIONAL OCEAN SERVICE
COAST SURVEY

SOUNDINGS IN FATHOMS



Joins page 15



Mariana Islands
SOUNDINGS IN FATHOMS - SCALE 1:931,650

81004

LORAN-C OVERPRINTED

19

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

- Channel 6** – Inter-ship safety communications.
- Channel 9** – Communications between boats and ship-to-coast.
- Channel 13** – Navigation purposes at bridges, locks, and harbors.
- Channel 16 – Emergency, distress and safety calls** to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
- Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
- Channels 68, 69, 71, 72 & 78A** – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Sector Guam – (671)339-6100

Coast Guard Pacific Islands – (808)541-2500

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

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Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.